

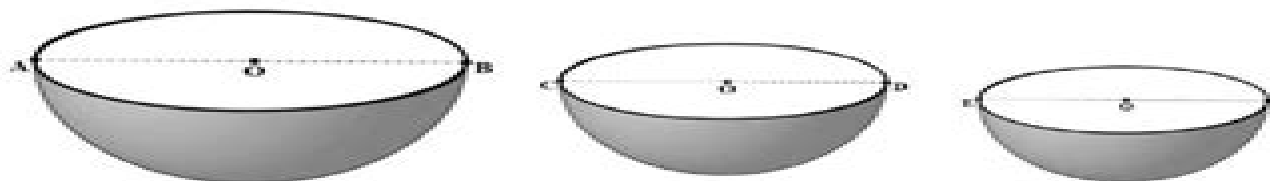
SECTION A**QUESTION 1**

- (a) The 100th term of an arithmetic sequence is 512 and its common difference is 7, determine the first term of the sequence. (3)
- (b) The general term of a sequence is $T_n = 2n + 3$.
- (1) Show that the sequence is arithmetic. (3)
- (2) Determine, in terms of n , a simplified expression for S_n , the sum of the first n terms. (3)
- (c) Consider the given quadratic sequence: 4 ; 7 ; 14 ; 25 ; ...
Determine a simplified expression for the n th term of the sequence. (4)
- [13]**

QUESTION 2

- (a) Given: $\sum_{n=1}^x 108 \times \left(\frac{2}{3}\right)^n$
- (1) Determine the first two terms. (2)
- (2) If $\sum_{n=1}^x 108 \times \left(\frac{2}{3}\right)^n = \frac{520}{3}$, determine the value of x . (4)
- (b) Hollow plastic hemispheres are created such that each successive one fits into the previous one.

The radii $OB = 21$ cm, $OD = 3$ cm and $OF = \frac{3}{7}$ cm.



Determine the sum of the outer surface areas, as shaded in the diagram, of all such hemispheres created by continuing the pattern indefinitely.

Useful formula: Surface Area of a hemisphere = $2\pi r^2$ (5)

[11]

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Tobias Bleicker



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1. Understanding the eBook Maths Past Papers Grade 12 Ieb
 - The Rise of Digital Reading Maths Past Papers Grade 12 Ieb
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Past Papers Grade 12 Ieb
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Past Papers Grade 12 Ieb
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Past Papers Grade 12 Ieb
 - Personalized Recommendations
 - Maths Past Papers Grade 12 Ieb User Reviews and Ratings

- Maths Past Papers Grade 12 Ieb and Bestseller Lists
- 5. Accessing Maths Past Papers Grade 12 Ieb Free and Paid eBooks
 - Maths Past Papers Grade 12 Ieb Public Domain eBooks
 - Maths Past Papers Grade 12 Ieb eBook Subscription Services
 - Maths Past Papers Grade 12 Ieb Budget-Friendly Options
- 6. Navigating Maths Past Papers Grade 12 Ieb eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Past Papers Grade 12 Ieb Compatibility with Devices
 - Maths Past Papers Grade 12 Ieb Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Past Papers Grade 12 Ieb
 - Highlighting and Note-Taking Maths Past Papers Grade 12 Ieb
 - Interactive Elements Maths Past Papers Grade 12 Ieb
- 8. Staying Engaged with Maths Past Papers Grade 12 Ieb
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Past Papers Grade 12 Ieb
- 9. Balancing eBooks and Physical Books Maths Past Papers Grade 12 Ieb
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Past Papers Grade 12 Ieb
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Past Papers Grade 12 Ieb
 - Setting Reading Goals Maths Past Papers Grade 12 Ieb
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Past Papers Grade 12 Ieb
 - Fact-Checking eBook Content of Maths Past Papers Grade 12 Ieb
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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